

200000290

HHE UNIHED STAYIES OF AMIERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

NERALB Genetics Corporation

PLOCOS, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR USING IT IN SUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY COUNTY (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

CORN, FIELD

'22DHQ3'

In Destinoun Therest, I have hereunto set my hand and caused the seal of the Hunt Insisty Assistan Office to be affixed at the City of Washington, D.C. this second day of Way, in the year two thousand two.

20mrbl

Commissioner

Plant Variety Protection Office

A :- It I W ! !!

y of Agriculture

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

The following state nents are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE
(Instructions and information collection burden statement on reverse)

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

(msabelions and implimation	Conection Dargen Statement	Ullievel	36)	<u> </u>		_		
1 NAME OF OWNER DEKALB Genetics Corporation					2. TEMPORARY DESIGNAT EXPERIMENTAL NAME	ION OR	3. VARIETY NAME 22DHQ3	
4 ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)					5. TELEPHONE (include area	code)	FOR OFFICIAL TISE ONLY	
					(815) 758-928	1	PVPO NUMBER	
	amore Road				6. FAX (include area code)	20	0000290	
DeKalb, I	L 60115				(815) 758-3117	,	<u> </u>	
		<u> </u>					FILING DATE	
7. IF THE OWNER NAMED IS NOT A "PERS ORGANIZATION (corporation, partnership,	ep, give 9. Date of incorporation are June 15, 1988			7/7/0)				
Corporation		<u></u>	Delaw				7/11/00	
10. NAME AND ADDRESS OF OWNER REP	RESENTATIVE(S) TO SERVE IN THI	IS APPLICA	ITION, (Firs	t person listed will red	ceive all papers)		FILING AND EXAMINATION FEES:	
Timothy R. Kain DEKALB Genetics Corp	oration	D		Fraut 3 Genetics Corporation camore Road			R DATE 6-00	
3100 Sycamore Road DeKalb, II 60115 DeKalb, IL 60115						SECRETIFICATION FEE: 1 320.00 DATE 4/5/02		
11. TELEPHONE (Include area code)	12. FAX (Include area code)		13. E_M	IAIL		14. CRO	P KIND (Common Name)	
(815) 758-9281	(815) 758-9281 (815) 758-3117				calb.com		Corn	
15 GENUS AND SPECIES NAME OF CROP 16, FAM				AILY NAME (Bolanical) 17. IS THE VARIETY A FIRST GENE HYBRID?				
Zea mays				Gramineae				
18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse)				19. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? See Section 83(a) of the Plant Variety Protection Act)				
a. X Exhibit A. Origin and Breeding	•			YES (If "yes", answer items 20 X NO (If "no," go to item 22) and 21 below)				
b. X Exhibit B. Slatement of Distinct c. [X Exhibit C. Objective Description				20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?				
d. Exhibit D. Additional Description of the Variety (Optional)				TES NO				
e. X Exhibit E. Statement of the Basis of the Owner's Ownership 1. X Voucher Sample (2,500 viable untreated seeds or, for tuber propagated varieties,				21. IF "YES" TO ITEM 20, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED?				
verification that tissue culture will be depositied and maintained in an approved public repository) g. X Filing and Examination Fee (\$2,450), made payable to "Treasurer of the United States" (Mail to the Plant Variety Protection Office)				☐ FOUNDATION ☐ REGISTERED ☐ CERTIFIED				
22. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR				23. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)?				
OTHER COUNTRIES? X YES U.S. February 2000 NO IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.)				YES X NO IF YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use space indicated on reverse.)				
24. The owners declare that a viable sample of for a tuber propagated variety a tissue cutto	basic seed of the variety will be furn	ished with a	pplication a	and will be replenishe for the duration of the	d upon request in accordance w	rith such reg	sulations as may be applicable, or	
The undersigned owner(s) is(are) the owner and is entitled to protection under the provious owner(s) is(are) informed that (also represent the company of th	or of this sexually reproduced or tube sions of Section 42 of the Plant Varie	r propagate sty Protectio	d plant varion Act.	ety, and believe(s) th		iform, and s	table as required in Section 42,	
SIGNATURE OF OWNER	10.1			SIGNATURE OF	OWNER			
1 inthy K. Ko								
NAME (Please print or type) Timothy R. Kain				NAME (Please print or type)				
Patent Scientist				CAPACITY OR TI	TITLE DATE			
T-470 (5-98) designed by the Place Variety Pro	section Office with WordParter 6 03	Reniaces	STD 470 (C	12.061 which is obsert	de (See municipality inst	articas 30	d information collection burden statement)	

200000290

INSTRUCTIONS

Page 2 - 22DHQ3

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$2,450 (\$300 filing fee and \$2,150 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfiled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 500, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$300 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office Telephone: (301) 504-5518 FAX: (301) 504-5291

Homepage: http://www.ams.usda.gov/science/pvp.htm

ITEM

18a. Give:

- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- (2) the details of subsequent stages of selection and multiplication:
- (3) evidence of uniformity and stability; and
- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 18b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
 - (1) identify these varieties and state all differences objectively;
 - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness
- 18c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 18d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 18e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 19. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- 22. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 23. See Section 5.5 of the Act for instructions on claiming the benefit of an earlier filing date.
- 22. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

A hybrid produced from this variety was first sold in the United States - February 2000

23. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. There is no charge for filing a change of address. The fee for filing a change of ownership or assignment or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131. '97.175(h) of the Regulations and Rules of Practice.)

To avoid conflict with other variety names in use, the applicant must check the variety names proposed by contacting: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center—East, Beltsville, MD 20705. Telephone: (301) 504-8089.

Public reporting burden for this collection of information is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other espect of this collection of information, including suggestions for reducing this burden, to Department of Agriculture, Clearance Officer, OIRM, AG Box 7630, Jamie L. Whiten Building, Washington, D.C. 20250. When replying, refer to OMB No. 0581-0055 and form number in your

lotter, Under the PRA of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

The U.S. Department of Agriculture (USDA) prohibits discrimination in its programs on the basis of race, color, national origin, sax, religion, age, disability, political beliefs, and marital or familial status. (Not all prohibited bases apply to all programs). Persons with disabilities who require alternative means for communication of program information (braille, large print, audiotape, etc.) should contact the USDA Office of Communications at (202) 720-2791. To file a complaint, write the Secretary of Agriculture, U.S. Department of Agriculture, Washington, D.C. 20250, or call (202) 720-7327 (voice) or (202) 720-1127 (TDO). USDA is an equal opportunity employer.

S&T-470 (6-96) designed by the Plant Variety Protection Office with WordPerfect 6.0a, Reptaces STD-470 (03-95) which is obsolete.

EXHIBIT A

Origin and Breeding History 22DHQ3

22DHQ3 was selected for improved seed size, plant health and combining ability.

Summer 1991	The inbred line FBLL(a proprietary DEKALB GENETICS CORPORATION inbred) was crossed to a line derived from the Pioneer hybrid 3394.
Winter 1991-92	The S0 seed was grown and self-pollinated in Hawaii nursery row U25/47.
Summer 1992	A bulk of the S1 seed was grown and self-pollinated in North Liberty nursery rows 4351-4390.
Summer 1993	The S2 seed was grown ear-to-row and self-pollinated in rows 366-497.
Winter 1993-94	The S3 seed was grown ear-to-row and self-pollinated in Hawaii nursery rows 8N/1951-1964.
Summer 1995	The S4 seed was grown ear-to-row and self-pollinated in rows 1928-1992.
Winter 1995-96	The S5 seed was grown ear-to-row and self-pollinated in Hawaii nursery rows BB3/12-14. Harvested seed was bulked and given the designation 22DHQ3.

Statement of Stability and Uniformity

Corn inbred 22DHQ3 was coded in 1996 and has been reproduced by self pollination for the past three years and judged to be stable. Inbred 22DHQ3 is uniform for all traits observed.

Statement of Variants

22DHQ3 shows no variants other than what would normally be expected due to environment or that would occur for almost any character during the course of repeated sexual reproduction.

EXHIBIT B

Statement of Distinctness

DEKALB Genetics Corporation believes that 22DHQ3 is most similar to corn inbred FBLL, an inbred developed by DEKALB Genetics Corporation.

22DHQ3 and FBLL differ most significantly in the following traits:

Qualitative Traits:

Trait	22DHQ3	FBLL
Anther Color	Tan	Pink
	2.5 GY 8/6 with 5 R 5/8	2.5 R 7/6
Cob Color	White	Red
	Lighter than 5 Y 9/1	5 R 3/8
Kernel Cap Color	Orange	Yellow
	7.5 YR 7/8	2.5 Y 8/10
Kernel Side Color	Orange	Deep Yellow
	7.5 YR 6/8	7.5 YR 7/10

United States Department of Agriculture, Agricultural Marketing Service Science Division, Plant Variety Protection Office National Agricultural Library Building, Room 500 Beltsville, MD 20705

OBJECTIVE DESCRIPTION OF VARIETY CORN (Zea mays L.)

Name of Applicant(s)		Variety Seed So	urce	Variety	Name or Tempora 22DH03	ary Designation
DEKALB Genetics Corporation						
Address (Street & No., or R.F.D. No., City, State, Zip Code	e and Country)			FOR OFF	CIAL USE	
3100 Sycamore Road, DeKalb, IL 60115 U.S.A.				PVPO Nur	2000 O	0290
Place the appropriate number that describes the varietal cl whole numbers by adding leading zeroes if necessary. Comp. Traits designated by a '*' are considered necessary for an	Leteness shoul	d be striven for	ed variet to estab	y in th lish an	e spaces below. adequate variet	Right justify
02=Medium Green 07=Yellow 1 03=Dark Green 08=Yellow-Orange 1 04=Very Dark Green 09=Salmon 1	co describe al L=Pink ==Light Red B=Cherry Red L=Red ==Red & White	l color choices; 16=Pale 17=Purpl 18=Color 19=White 20=White	Purple e less		d #26 in Comment 21=Buff 22=Tan 23=Brown 24=Bronze 25=Variegated (1 26=Other (Descr	Describe)
STANDARD INBRED CHOICES(Use the most similar (in background Yellow Dent Families: Family Members	Yellow D	of these to ma ent (Unrelated): 09, ND246,			ased on grow-out t Corn: C13, Iowa5125,	
B14 CM105, A632, B64, B68 B37 B37, B76, H84 B73 N192, A679, B73, NC268 C103 Mo17, Va102, Va35, A682	Oh7, T2 W117, W W182BN				orn: 533, 4722, HP30	l, HP7211
Oh43 A619, MS71, H99, Va26 WF9 W64A, A554, A654, Pa91	White De CI66, H	nt: 105, Ky228			corn: 5W, Mo16W, Mo24V	ī
1. TYPE: (describe intermediate types in Comments section) * 2 1=Sweet 2=Dent 3=Flint 4=Flour 5=Pop 6=Ornament		n	Standa 2	rd Inbr	ed Name B73	
2. REGION WHERE DEVELOPED IN THE U.S.A.: * 2 1=Northwest 2=Northcentral 3=Northeast 4=Southeas	st 5=Southcen	tral	Standa 2	rd Seed	Source NCRIPS_	
6=Southwest 7=Other	or 5 bourneen					
3. MATURITY (In Region Best Adaptability; show Heat Unit section): DAYS HEAT UNITS			DAYS 0 7		HEAT UNITS 1 5 3 8.	0
* _ 7 6 1 5 1 6. 0 From emergence to 50% c * 7 7 1 5 3 1. 0 From emergence to 50% c	-		0 7	7	1 4 9 9.	0
. From 10% to 90% pollen		344011		_		_
(*) From 50% silk to optimu		Lty		_		-
From 50% silk to harves	_		0 7	5	1 2 9 6.	0
	dard Deviation			St	andard Deviation	n Sample Size
* 2 4 6.0 cm Plant Height (to tassel tip)	16.334	60	2 2	8.8	15.088	170
* 0 9 7.6 cm Ear Height (to base of top ear node)	18.455	60	0 9	6. 0	10.540	170
0 1 5.9 cm Length of Top Ear Internode	0.000	60	0 1	4. 2	1.806	170
Average Number of Tillers						
* 1. 3 Average Number of Ears per Stalk	0.283	60	0 0	1. 1	0.180	170
2 Anthocyanin of Brace Roots: 1=Absent 2=Faint	3=Moderate 4	=Dark	4			

Application Variety Data	Page	Standard Inbred Data					
5. LEAF:	Standard Deviation	Sample Size		St	andard Deviation	Sample Siz	
* 0 0 9.3 cm Width of Ear Node Leaf	1.061	60	0 0	9. 1	0.764	170	
* 0 7 1.8 cm Length of Ear Node Leaf	1.909	60	0 7	9. 6	2.524	170	
* 6. 8 Number of leaves above top ear	0.566	30	5. 6		0.432	85	
2 6. 6 degrees Leaf Angle (measure from 2nd leaf above ear at	10.465 anthesis to stalk abo	60 ve leaf)	2 5	. 5	7.626	170	
* 0 2 Leaf Color (Munsell code 5 GY 4/8)			0 3	(Munsel	1 code 5 GY 3/4)		
7 Leaf Sheath Pubescence(Rate on scale	from 1=none to 9=pea	ch fuzz)	6				
3 Marginal Waves (Rate on scale from 1	=none to 9=many)		4				
3 Longitudinal Creases (Rate on scale	from 1=none to 9=many)	3				
6. TASSEL:	Standard Deviation	Sample Size		St	andard Deviation	Sample Si:	
* 3. 5 Number of Primary Lateral Branches	0.354	60	8. 1		1.690	170	
1 5. 7 Branch Angle from Central Spike	2.616	60	2 3	. 7	5.615	170	
* 4 1. 1 cm Tassel Length	0.990	60	3 7.	. 9	4.949	170	
(from top leaf collar to tassel tip) 4. 7 Pollen Shed (Rate on scale from 0=male sto	erile to 9=heavy shed)	3. 4				
2 2 Anther Color (Munsell code 2.5 GY 8/6 with		2 2	(Munsel	l code 10 Y 8.5/6	5)		
0 2 Glume Color (Munsell code 5 GY 4/8)				(Munsel	1 code 5 GY 4/8)		
1 Bar Glumes (Glume Bands): 1=Absent 2=Prese	ent		1				
7a. EAR (Unhusked Data): * 0 5 Silk Color (3 days after emergence) (Munsel:		470)			l code 2.5 GY 8/6	5)	
0 2 Fresh Husk Color (25 days after 50% silking)					<pre>1 code 5 GY 4/8) 1 code 2.5 Y 8/4)</pre>		
2 1 Dry Husk Color (65 days after 50% Silking) * 3 Position of Ear at Dry Husk Stage: 1=Upright			3	(Muliser	1 Code 2.5 1 6/4)		
* 3 Position of Ear at Dry Husk Stage: 1=Upright 6 Husk Tightness (Rate on scale from 1=very 10		:IIC	. 6				
1 Husk Extension (at harvest): 1=Short (ears		cm)	1				
3=Long (8-10 cm beyond ear t							
7b. EAR (Husked Ear Data):	Standard Deviation	Sample Size		St	andard Deviation	Sample Si:	
* 1 7.3 cm Ear Length	0.212	30	1 3.	. 6	0.706	85	
* 4 0.5 mm Ear Diameter at mid-point	0.707	30	4 3.	2	1.814	85	
1 4 1.9 gm Ear Weight	1.485	60	1 1	9. 4	26.433	170	
* 1 5 Number of Kernel Rows	0.566	30	1 7		0.721	85	
2 Kernel Rows: 1=Indistinct 2=Distinct			2				
2 Row Alignment: 1=Straight 2=Slightly Cu	urved 3=Spiral		2				
0 5. 9 cm Shank Length	1.697	60	0 7.	. 9	1.620	170	
2 Ear Taper: 1=Slight 2=Average 3=Extreme	9		2				
Application Variety Data				Standard Inbred Data			
pplication Variety Data			Standa	ard Inbr	ed Dat	ta	

6

Application Variety Data	Page	3	Standard Inbred Data				
8. KERNEL (Dried):	Standard Deviation	Standard Deviation Sample Size		Standard Deviation Sample Size			
1 1.1 mm Kernel Length	0.424	30	1 0.8	0.713	85		
0 7.5 mm Kernel Width	0.707	30	0 7.0	0.559	85		
0 4.4 mm Kernel Thickness	0.283	30	0 3.9	0.592	85		
2 1.5 % Round Kernels (Shape Grade)		500g	2 6.5		500g		
1 Aleurone Color Pattern: 1=Homozygous 2=	=Segregating		1.				
(*) 1 9 Aleurone Color (Munsell code Lighter th	nen 2.5 Y 9/2)		1 9 (Munsell code Lighter Than 2.5 Y 9/2)				
* 0 7 Hard Endosperm Color (Munsell code 2.5	Y 8/10)		0 7 (Munsell code 2.5 Y 8/10)				
* 0 3 Endosperm Type: 1=Sweet (sul) 2=Extra 8 4=High Amylose Starch 5=Waxy Starch 6= 8=Super Sweet (se) 9=High Oil 10=Other	High Protein 7=High Ly		0 3				
2 7.6 gm Weight per 100 Kernels (unsized samp	ole) 0.212	600 seeds	2 3.6	3.778	1700 seeds		
9. COB:	Standard Deviation	Sample Size	S	tandard Deviation	Sample Siz		
* 4 0.5 mm Cob Diameter at mid-point	0.707	30	2 6.3	1.671	85		
1 9 Cob Color (Munsell code Lighter than 5	Y 9/1)		1 4 (Muns	ell code 5 R 3/8)			
7 Anthracnose Leaf Blight (Colletotrichum graminic Common Rust (Puccinia sorghi) Common Smut (Ustilago maydis) 7 Eyespot (Kabatiella zeae) 6 Goss's Wilt (Clavibacter michiganense spp. nebra 2 Gray Leaf Spot (Cercospora zeae-maydis) 6 Helminthosporium Leaf Spot (Bipolaris zeicola) R 3 Northern Leaf Blight (Exserohilum turcicum) Race 6 Southern Leaf Blight (Bipolaris maydis) Race 0 Southern Rust (Puccinia polysora) 7 Stewart's Wilt (Erwinia stewartii) Other (Specify) 8. Systemic Diseases 8 Corn Lethal Necrosis (MCMV and MDMV) Head Smut (Sphacelotheca reiliana) Maize Chlorotic Dwarf Virus (MCDV) Maize Chlorotic Mottle Virus (MCMV) Maize Dwarf Mosaic Virus (MDMV) Strain Sorghum Downy Mildew of Corn (Peronosclerospora Other (Specify)	askense) dace 2 e 2		7 5 7 7 7 2 8 Race 2 5 Race 2 3 Race 0 3				
C. Stalk Rots Anthracnose Stalk Rot (Colletotrichum graminicol Diplodia Stalk Rot (Stenocarpella maydis) Fusarium Stalk Rot (Fusarium moniliforme) Gibberella Stalk Rot (Gibberella zeae) Other (Specify) D. Ear and Kernel Rots Aspergillus Ear and Kernel Rot (Aspergillus flav Diplodia Ear Rot (Stenocarpella maydis) Fusarium Ear and Kernel Rot (Fusarium moniliform Gibberella Ear Rot (Gibberella zeae)	rus)		- - - - - - -				
Other (Specify)							

REFERENCES:

Butler, D.R. 1954. A System for the Classification of Corn Inbred Lines. PhD Thesis, Ohio State University. Emerson, R.A., G.W. Beadle, and A.C. Fraser. 1935. A Summary of Linkage Studies in Maize. Cornell A.E.S., Mem. 180. Farr, D.F., G.F. Bills, G.P. Chamuris, A.Y. Rossman. 1989. Fungi on Plant and Plant Products in the United States. The American Phytopathological Society, St. Paul, MN.
Inglett, G.E. (Ed.) 1970. Corn: Culture, Processing, Products. Avi Publishing Company, Westport, CT. Jugenheimer, R.W. 1976. Corn: Improvement, Seed Production, and Uses. John Wiley & Sons, New York. McGee, D.C. 1988. Maize Diseases. APS Press, St. Paul, MN. 150 pp. Munsell Color Chart for Plant Tissues. Macbeth. P.O. Box 230. Newburgh, N.Y. 12551-0230 The Mutants of Maize. 1968. Crop Science Society of America. Madison, WI.
Shurtleff, M.C. 1980. Compendium of Corn Diseases. APS Press, St. Paul, MN. 105 pp.
Sprague, G.F., and J.W. Dudley (Editors). 1988. Corn and Corn Improvement, Third Edition. Agronomy Monograph 18. ASA, CSSA, Madison, WI. Stringfield, G.H. Maize Inbred Lines of Ohio. Ohio A.E.S., Bul. 831. 1959.

COMMENTS (eg. state how heat units were calculated, standard inbred seed source, and/or where data was collected. Continue in Exhibit

Heat Unit Calculation: GDU = Daily Max Temp (<=86°F) + Daily Min Temp (>=50°F) - 50°F

U.S. Department of Agriculture. 1936, 1937. Yearbook.

data collected for '22DHQ3' occurred at 3 test locations over two years for a total sample size of 60 plants measured. Data was reported as means across years and locations. Data collected for 'B73' also was reported as mean values across years and locations (4 years – 3 locations). Each of the aforementioned characteristics had a wide range of values due to spacial and temporal variation of the test contributing to the large standard deviation. Growing conditions (soil, climate, drought conditions, etc.) contributed significantly to influence the variability of the traits measured.

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE	The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995. Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).				
EXHIBIT E STATEMENT OF THE BASIS OF OWNERSHIP					
1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME			
DEKALB Genetics Corporation	OR EXPERIMENTAL NOWIDER	22DHQ3			
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)	5. TELEPHONE (include area code)	6. FAX (include area code)			
3100 Sycamore Road	(815) 758-9281	(815) 758-3117			
DeKalb, IL 60115 U.S.A.	7. PVPO NUMBER				
8. Does the applicant own all rights to the variety? Mark an "X" in appropri	nate block. If no, please explain.	X YES NO			
	9				
		·-			
 Is the applicant (individual or company) a U.S. national or U.S. based of If no, give name of country 	ompany?	X YES NO			
10. Is the applicant the original owner?	of the	following:			
a. If original rights to variety were owned by individual(s), is (are) the or	riginal owner(s) a U.S. national(s)?				
TYES T	NO If no, give name of country				
b. If original rights to variety were owned by a company(ies), is(are) the	original owner(s) a U.S. based compan	y?			
TYES T	If no, give name of country				
11. Additional explanation on ownership (if needed, use reverse for extra s	pace):				
•					
PLEASE NOTE:					
Plant variety protection can be afforded only to owners (not licensees) who meet o	ne of the following criteria:				
1. If the rights to the variety are owned by the original breeder, that person must be which affords similar protection to nationals of the U.S. for the same genus and		ber country, or national of a country			
If the rights to the variety are owned by the company which employed the origi member country, or owned by nationals of a country which affords similar prote					
3. If the applicant is an owner who is not the original owner, both the original own	er and the applicant must meet one of the a	bove criteria.			
The original breeder/owner may be the individual or company who directed final b		Variety Protection Act for definition.			
According to the Paperwork Reduction Act of 1995, no persons are required to respond to a collect this information collection is 0581-0055. The time required to compete this information collect searching existing data sources, gathering and maintaining the data needed, and completing and	tion is estimated to average 10 minutes per respon	ontrol number. The valid OMB control number for se, including the time for reviewing instructions,			

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To file a complaint, write the Secretary of Agriculture, U.S. Department of Agriculture, Washington, D.C. 20250, or call 1-800-245-6340 (voice) or (202) 720-1127 (TDD). USDA is an equal employment opportunity employer.